

RESOUNDIFY

StreamCore-ENDE

4K60 4:4:4/HDR AV over IP JPEG2K Encoder / Decoder



PRODUCT OVERVIEW

The **Resoundify StreamCore-EN** is a high-performance 4K60 4:4:4/HDR AV over IP Encoder and Decoder based on JPEG2000 technology, designed for ultra-low latency and visually lossless video transmission. It integrates both copper and fiber network interfaces in a single unit, providing flexibility for various installation environments. The encoder supports up to 4K60 4:4:4 video input with audio embedding or extraction, while the decoder outputs up to 4K60 4:4:4 with audio extraction capabilities.

The product also supports multiple audio return options including ARC, eARC, S/PDIF, and analog. Additionally, it features USB 2.0, KVM, and camera connectivity, along with bi-directional RS-232, IR, and CEC control interfaces. Two built-in relay channels and two I/O ports are provided for external contact control. A built-in MJPEG substream allows real-time video previewing via third-party applications using API commands. The system runs on a Linux-based software platform and supports intelligent network control over 1G Ethernet switches.

KEY FEATURES

- **4K60 Ultra HD Video:** Supports resolutions up to 4096x2160 @ 60fps, delivering smooth, high-definition video performance.
- **4:4:4 Chroma Subsampling:** Preserves full color data for precise image quality, ideal for detail-critical applications like design, broadcast, or simulation.
- **HDR Support:** Compatible with HDR10 and HLG formats to deliver enhanced contrast, brightness, and color depth.
- **JPEG2000 Compression:** Uses visually lossless, low-latency intraframe compression—perfect for real-time AV distribution.
- **AV over IP (1G/10G Ethernet):** Streams high-quality video over standard IP networks using multicast or unicast protocols.
- **Embedded Audio Transmission:** Supports digital audio embedded in the video stream for synchronized AV distribution.
- **Web-Based Management Interface:** Simple configuration, monitoring, and firmware updates via an intuitive browser GUI.
- **Control System Integration:** RS-232 support for integration with control platforms like Crestron, AMX, Q-SYS, etc.
- **Low Latency Performance:** End-to-end latency as low as 40 ms, suitable for live video, conferencing, and command centers.
- **Compact & Reliable Design:** Fanless, robust form factor with wall or rack mounting; built for 24/7 operation in demanding environments.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

TECHNICAL SPECIFICATIONS

TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Compression Standard	JPEG2000
Network Video Bandwidth	10G
Video Resolution	Up to 4K@60Hz 4:4:4
IR Frequency	Wideband 20K - 60KHZ
Connections	
Encoder	Input: 1x HDMI IN [Type A, 19-pin male] 1x L/R AUDIO IN [3-pin 3.81mm Phoenix connector] Output: 1x HDMI OUT [Type A, 19-pin male] 1x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector] Control: 1 x RS-232 [3-pin 3.81mm Phoenix connector] 1x LAN (POE) [RJ45 jack] 1x IR IN [3.5mm Audio Jack] 1x IR OUT [3.5mm Audio Jack]
Decoder	Output: 1x HDMI OUT [Type A, 19-pin male] 1x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector] Control: 1x RS-232 [3.81mm Phoeni connector] 1x LAN (POE) [RJ45 jack] 1x IR IN [3.5mm Audio Jack] 1x IR OUT [3.5mm Audio Jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	204mm [W] x 136mm [D] x 25.5mm [H]
Weight	Encoder: 631g
Power Supply	Input: AC100-240V 50/60Hz, Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption (Max)	Encoder: 8.52W
Operation Temperature	32-104°F/0-40°C
Storage temperature	-4-140°F/-20-60°C
Relative Humidity	20- 90% RH (no condensation)